Endless Summer®

Outdoor Patio Heater

Owners Manual
Manueal d'Utilisation

Model No.
153100

U.S. Patent Number: 6,470,877
Les ETATS-UNIS font breveter le nombre : 6,470,877

WARNING

FOR YOUR SAFETY

For Outdoor Use Only
(Outside any enclosure)

WARNING

FOR YOUR SAFETY

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Read the installation, operation and maintenance instructions thoroughly before installing or servicing this equipment.

AVERTISSEMENT

POUR VOTRE SECURITE:

A Utiliser Uniquement a l'Exterieur (hors de tout abri clos)

AVERTISSEMENT

POUR VOTRE SECURITE:

Tout mauvais reglage ainsi que toute installation, modification, ou maintenance incorrecte risque de provoquer des blessures ou des degats materiels. Lir completement les instructions concernant l'installation, le fonctionnement et l'entretien avant d'installer ou de proceder a la maintenance de cet appareil.

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WARNING

FOR YOUR SAFETY

If you smell gas -
1. Shut off gas to appliance.
2. Extinguish any open flame.
3. If odor continues, contact your gas supplies or fire department

WARNING

FOR YOUR SAFETY

1. Gas leaks may cause a fire or explosion which can cause serious bodily injury or death, or damage to property.
2. You must follow all leak checking procedures as outlined in step 13 before operating this unit.
3. Never use an open flame to check for leaks.

WARNING

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

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WARNING

California Proposition 65:

Chemicals know to the state of California to cause cancer, birth defects, or other reproductive harm are created by the combustion of propane.

WARNING

FOR YOUR SAFETY

- ***Purchaser assumes all risk in the assembly and operation of this unit. Failure to follow this manual's WARNINGs and instructions can result in severe personal injury, death or property damage.***
- ***Do not use in an explosive atmosphere. Keep heater away from areas where flammable liquids, gasoline, vapors, or explosives are stored or used.***

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The use and installation of this product must conform to local codes. In absence of local codes, us the National Fuel and Gas Code, ANSI Z223, 1/NFPA 54, Storage and Handling of Liquid Petroleum Gases, ANSI/NFPA 58 or CSA B149.1, Natural Gas and Propane Installation Code.

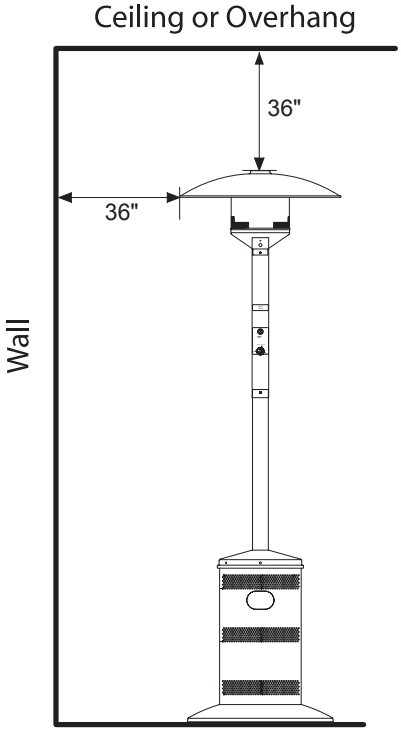
Save these instructions for future reference. If you are assembling this unit for someone else, give this manual to him or her to save for future reference.

Before you do anything else, read and understand all precautions in Safety First!

WARNING

FOR YOUR SAFETY

- ***Purchaser assumes all risk in the assembly and operation of this unit. Failure to follow this manual's WARNINGs and instructions can result in severe personal injury, death or property damage.***
- ***Do not use in an explosive atmosphere. Keep heater away from areas where flammable liquids, gasoline, vapors, or explosives are stored or used.***



Safety First!

Read and become familiar with this entire manual, especially the following precautions.

If you are unsure of anything in these instructions, STOP and contact

1-800-762-1142 for assistance.

Caution: This appliance is for outdoor use only (outside any enclosure). Always make sure there is fresh air ventilation.

- Always maintain at least 36" clearance from combustible materials.
- Always place heater on a hard and level surface.
- Do not use if the wind velocity is greater than 10 miles per hour.
- Unit will operate at reduced efficiency below 40ºF (5ºC).
- Keep sprinklers and other water sources away from burner and controls.
- **Always use extreme caution when near heater. Alert both children and adults to the hazards of high temperatures, especially to avoid burns or clothing catching fire.**
- **Young children and pets should be carefully supervised when they are in the area of heater.**
- **Do not hang clothing or other flammable materials either on or near heater.**
- **Any guard or other protective device removed for servicing the heater must be replaced prior to operating the heater.**
- Certain materials or items, when stored under heater, will be subjected to radiant heat and could be seriously damaged.
- Do not alter heater in any manner.
- The pressure regulator and hose assembly supplied with the appliance must be used and replacements must be those specified by the manufacturer.
- Inspect heater before each use. If a damaged part is detected, do not operate until an original equipment replacement part has been properly installed. Use of unauthorized parts will void warranty and create an unsafe condition.
- Do not attempt to use this appliance without a functional factory-supplied gas regulator in place. If regulator becomes damaged, use only a factory-supplied replacement.
- Prior to operating heater, replace any guards or protective devices removed for servicing.
- During operation, do not touch burner assembly. The surface of heater's emitter can reach temperatures approaching 1600ºF.
- After shutdown, do not touch burner assembly until heater has cooled (approximately 45 minutes after use).

Notice: This product should not be used with any fuel other than liquid propane. Use of other fuels will detract from heaters performance and will void your warranty.

Caution: Liquid propane (LP) gas is flammable and hazardous if handled improperly. Become aware of the characteristics before using any LP product.

- LP Characteristics – Flammable, explosive under pressure, heavier than air - settles in pools in low areas.
- In its natural state, propane has no odor. For your safety, an odorant is added that smells like rotten cabbage.
- Contact with LP can cause freeze burns to skin.
- This heater is shipped from the factory for LP gas use only.
- Use only Department of Transportation (DOT) approved "20 lb." LP gas cylinders (same as those commonly used on gas grills) with Acme / Type 1 / QCC safety valves. These valves can be quickly identified because they have external and internal threads.
- Never use an LP cylinder with a damaged body, valve, collar, or footring.
- Dented or rusted LP cylinders may be hazardous and should be checked by your LP gas supplier.
- The cylinder supply system must be arranged for vapor withdrawl.
- The cylinder used must include a collar to protect the cylinder valve.
- When heater is not in use, turn LP cylinder OFF.
- Always perform a leak test on gas connections whenever a cylinder is connected. Never use a flame to test for leaks. Do not smoke while performing a leak test.

Caution: It is essential to keep the heater's valve compartment, burners, and circulating air passages clean.

- Spiders and insects can create a dangerous condition that may damage heater or make it unsafe. Keep burner area clean of all spiders, webs, or insects.
- Inspect heater before each use.
- **Have heater inspected annually and repairs should be made by a qualified service person.**
- Check heater immediately if any of the following conditions exist:
- The smell of gas in conjunction with extreme yellow tipping of burner flames.
- Heater does not reach proper temperature.

Note: At temperatures less than 40ºF, heat output will be reduced.

- Heater's glow is excessively uneven
- Burner makes popping noises during use.

Note: A slight pop is normal when burner is extinguished.

- Carbon deposits may create a fire hazard. Keep dome and emitter clean at all times.
- Do not clean heater with combustible or corrosive cleaners. Use warm, soapy water.
- Do not paint engine, engine access panel or dome.

"20 lb." LP Cylinder

FOR YOUR SAFETY:

Beware of Spiders

Spiders or small insects can get into the burner tube or other openings of your heater, and spin webs or build nests. These obstructions can lead to gas flow problems. It is important to make frequent inspections of these areas and clean them when necessary.

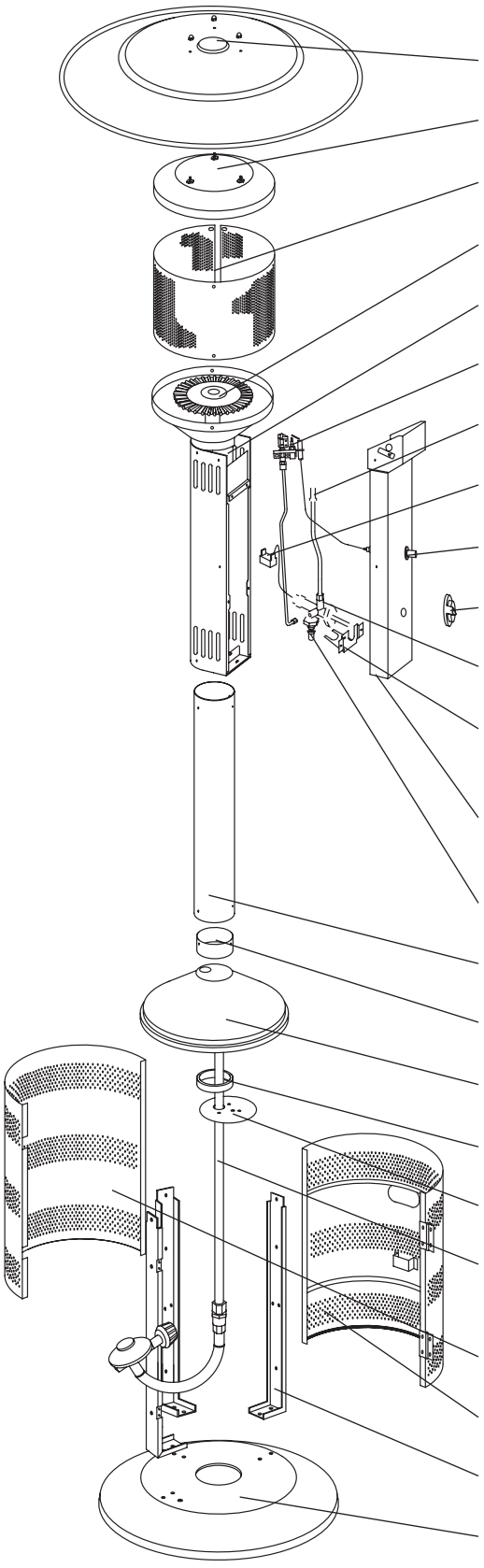
Before operating your heater for the first time, be sure to check for obstructions that may have occurred during shipment.

Need a cylinder or gas?

Try Blue Rhino cylinder exchange service. It's easy, fast, safe, and available at tens of thousands of conveniently located retail outlets nationwide. You can purchase a new full cylinder or exchange your empty for a precision filled one.

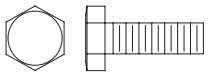
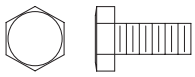
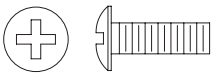
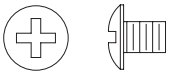
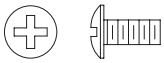
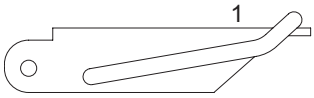
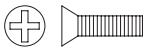
For your nearest Blue Rhino retailer visit **www.bluerhino.com.**

Components



Part Name	Re-order Number
Dome	56-01-108
Top Dome Plate	56-01-116
Emitter	56-01-118
Burner Assembly	56-01-124
Valve Housing	56-01-147
Pilot Assembly	56-01-127
Nozzle	56-01-125
Tilt Switch	56-01-148
Ignitor	56-01-143
Knob	56-01-156
Valve	56-01-304
Valve Housing Backboard	56-01-144
Valve Housing Cover	56-01-141
Quick Connect	56-01-305
Pole	56-01-159
Cup	56-01-166
Cap	56-01-167
Ring	56-01-171
Cap Support	56-01-172
Gas Line/Regulator Assembly	56-01-192
Cylinder Shroud	56-01-173
Cylinder Access	56-01-177
Legs (3)	56-01-193
Base	56-01-197

Hardware

Picture	Qty	Description	Used in Step(s)
	9	Large Bolt 56-01-200	1 & 3
	3	Small Bolt 56-01-201	5
	1	Extra Large Screw 56-01-202	11
	17	Medium Screw 56-01-203	2, 4, 7 & 8
	10	Small Screw 56-01-204	6
	9	Lockwasher 56-01-206	1 & 5
	9	Large Nut 56-01-209	1 & 5
	3	Cap Nut 56-01-210	10
	2	Small Nut 56-01-211	6
	1	Clip 56-01-214	11
	1	Latch 56-01-216	14
	2	Latch Screw 56-01-217	14
	2	Latch Nut 56-01-218	14
	4	Hinge Screw 56-01-219	14
	4	Hinge Nut 56-01-220	14

Assembly Instructions

General Components & Features

Familiarize yourself with all components before proceeding. Refer to page 5 for hardware and components, and page 20 for specifications.

Do NOT attempt assembly unless all components are available. If you believe a component is missing or damaged, contact 1-800-762-1142 for assistance.

Note: All hardware is mounted on a cardboard pack and numbered to match their assembly step.

Additional Requirements

The following items are not included, but are necessary for the proper assembly of your heater. Do NOT attempt to assemble without proper tools. A hex (Allen) wrench is necessary and is included in the parts bag.

(1) 7/16” Wrench
(1) 7/16” Socket Wrench
(1) #2 Phillips Head Screwdriver
(1) Leak Detection Solution (Instructions to prepare are included in step 13)
(1) Precision Filled LP Gas Grill Cylinder with Acme Type 1 external threaded valve connection (4-5 gallon size)

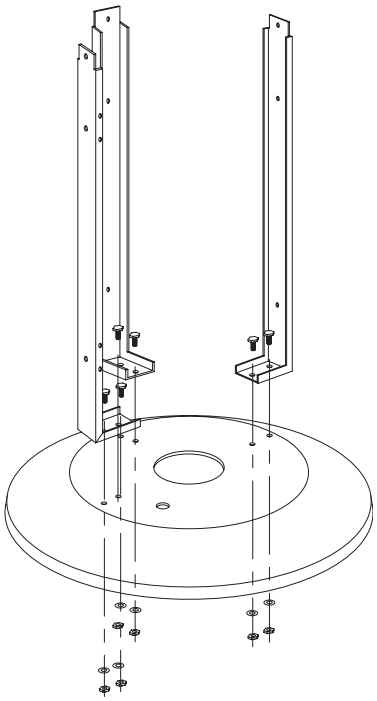
Note: You must follow all steps to properly assemble heater.

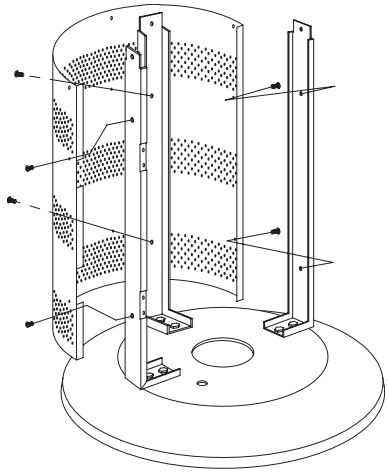
Step 1 – Attach Legs to Base

Note: Attach Leg with notches for hinges as shown at left.

Secure each leg to base using (2) Large Bolts, (2) Lock Washers and (2) Large Nuts per leg. Finger tighten only.

Do not fully tighten until Step 2.





Step 2–Attach Cylinder Shroud to Legs

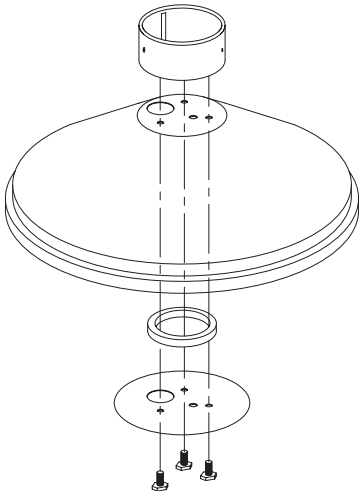
Line up slots in Cylinder Shroud flange with notches in left leg as shown.

Line up holes in center of Shroud with holes in Center Leg. Attach Cylinder Shroud to center Leg using (2) Medium Screws.

Secure Cylinder Shroud to outside Legs using (2) Medium Screws per leg.

Tighten nuts and bolts from Step 1.

TIP:
To tighten use a 7/16” wrench on Bolt and a 7/16” socket wrench on Nut.



Step 3–Attach Weight Plate to Base

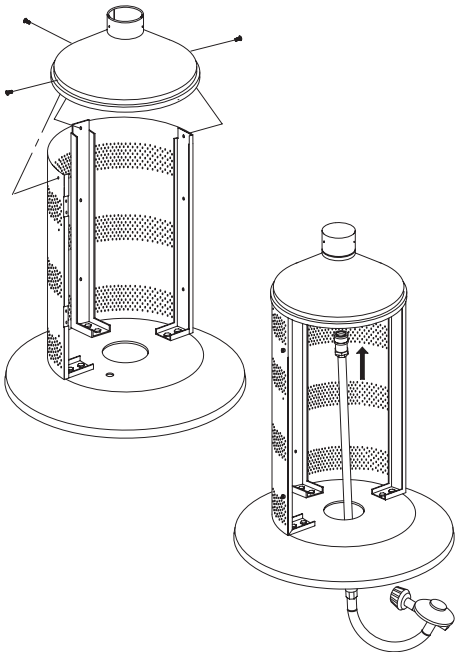
Place Spacer Ring on Support Plate so that all holes in plate fit inside ring.

Line up 3 small, unthreaded holes in plate with corresponding holes in cap.

Line up these holes with three threaded holes in Cup.

Insert (1) Large Bolt and tighten loosely.

Repeat for other (2) Large Bolts, then secure all tightly.



Step 4 – Attach Cap Assembly to Legs/Insert Gas Line

Line up 3 holes in Cap Assembly with holes in top of Shroud and legs.

Insert and tighten (1) Medium Screw into center leg.

Insert and tighten (1) Medium Screw into each of the outer legs.

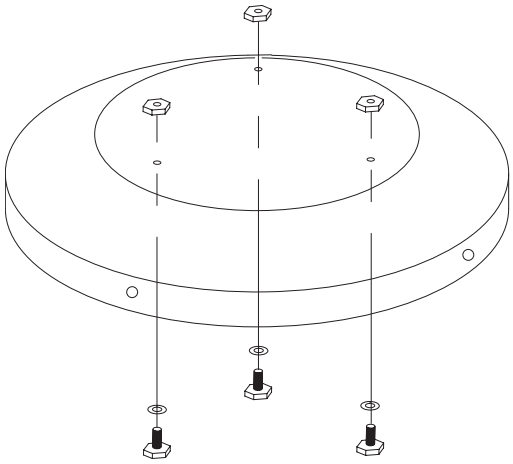
Tilt base on edge and slide Gas Line up through large hole in Base, then through Cap Assembly.

Step 5 – Assemble Emitter Top

Slip (1) Small Bolt through hole in Emitter Top from inside.

Slip (1) Lockwasher over bolt and thread (1) Large nut all the way down and tighten.

Repeat for other two holes.



Step 6 – Assemble Emitter

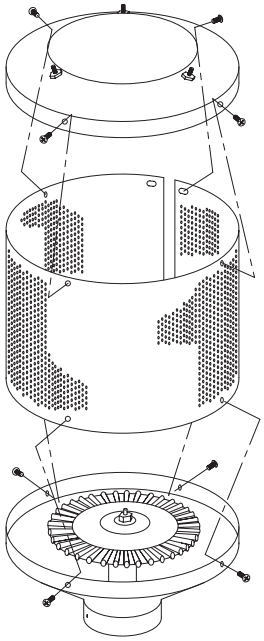
Curl Emitter Screen into a circle. Overlap ends and line up holes. Secure together using (2) Small screws and (2) small nuts.

Line up holes in bottom of Emitter Screen with holes in Engine.

Attach Emitter Screen to Engine with (4) Small Screws.

Line up holes in top of Emitter Screen with holes in Emitter Top.

Attach Emitter Screen to Emitter Top with (4) Small Screws.



Step 7 – Attach engine to Post

Remove and Save Control Knob.

Remove and save (3) screws from sides and bottom of Engine Access Panel.

Open Engine Access Panel.

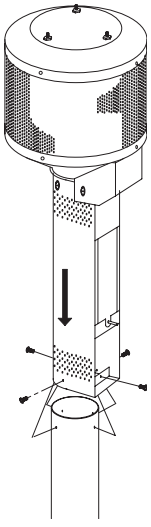
Disconnect wire from Igniter by gently pulling wire.

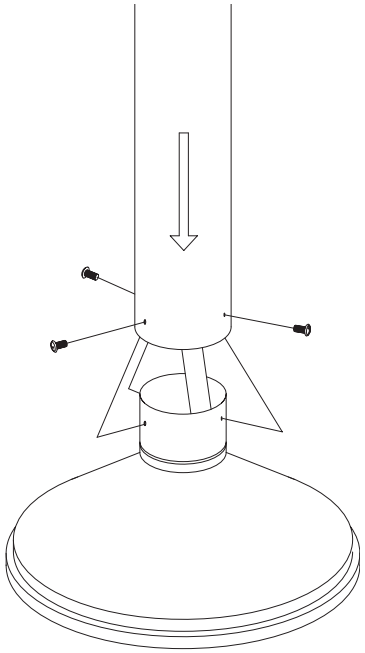
Remove and save Engine Access Panel.

Align threaded holes in Post with holes in bottom of Engine.

Insert (4) Medium Screws loosely. They will be fully tightened at the end of the next step.

Note: Do not replace Engine Access Panel until Step 13.



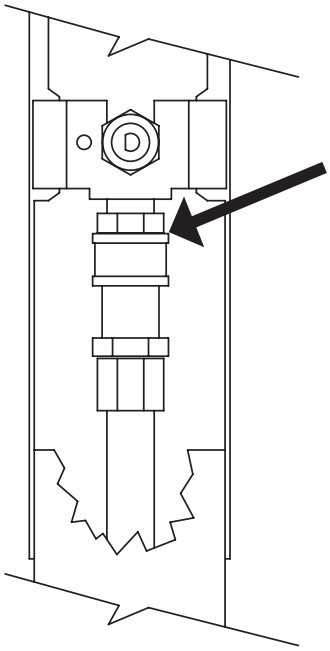


Step 8 – Connect Engine/Post Assembly to Cap

Insert end of Post with (4) holes not threaded over Gas Line

Line up Post holes with threaded Cap holes.

Loosely Secure Post to Cap, using (4) Medium Screws, fully tighten screws in Step 9.



Step 9 – Connect Gas Line to Engine

To attach Gas Line to Control Valve:

Pull collar of Gas Line down.

Insert Gas Line over Control Valve.

Release Gas Line Collar and it should lock in place. (Tip – push Gas Line up from bottom of Post to make a good seating before releasing Collar.)

Gently tug on line to test for proper connection. If Gas Line moves you are not properly connected.Do not proceed until a proper connection has been made.

After gas line is secure, fully tighten (4) screws from Step 8.

Step 10 – Attach Dome to Emitter

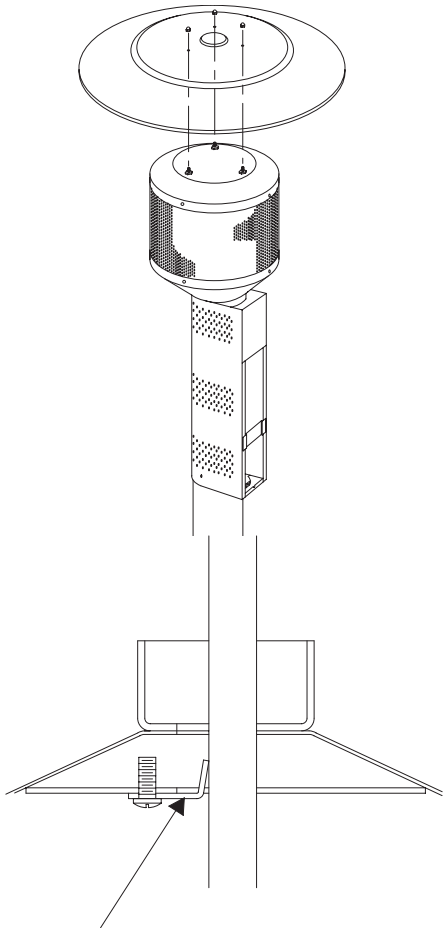
Gently lay heater on its side

Tip: Use styrofoam end to prop up top half of heater.

Align holes in Dome with Emitter Studs.

Secure Dome to Emitter using (3) Cap Nuts.

Leave heater on its side for next step.



Step 11 – Secure Gas Line

Line up hole in Gas Clip with threaded hole in Support Plate.

Attach using (1) Extra Long Screw.

Tighten screw in Gas Line Clip until Gas Line is held securely in place.

Stand heater upright on base.

Caution:

Before you attempt to use a propane cylinder, understand all cylinder and propane related precautions in Section #1 - "Safety First."

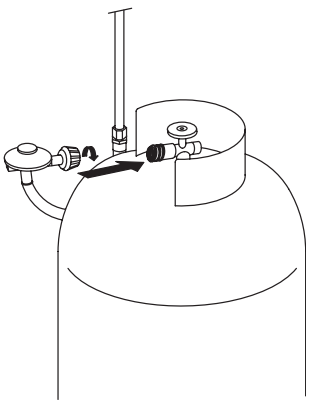
Step 12 – Connect Gas Line to Cylinder

The pressure regulator and hose assembly supplied with the appliance must be used and replacements must be those specified by the manufacturer.

Slide full Propane Cylinder onto Heater Base.

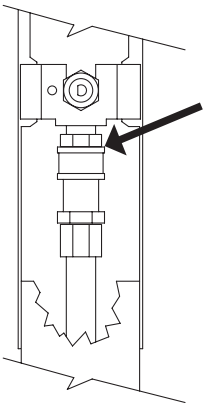
Attach Gas Line to Cylinder by turning black plastic knob clockwise over Cylinder valve until tight.

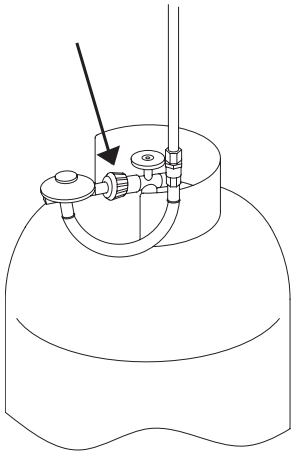
Note: Be careful not to kink flexible hose of Gas Line.



Caution

Your Endless Summer Portable Heater has been checked at all factory connections for leaks. Recheck all connections, as movement in shipping can loosen connections. Check for leaks even if your unit was assembled for you at the store.





Step 13 – Check for Leaks

Make 2-3 oz. of leak check solution by mixing one part liquid dishwashing soap and three parts water.

Turn cylinder valve ON.

Check Gas Line / Control Valve for leaks:

Spoon several drops of solution onto Gas Line and Control Valve connection.

Inspect the solution at the connection to look for bubbles.

If NO bubbles appear, then the connection is secure.

If bubbles appear, there is a leak -

Turn Cylinder valve OFF.

Loosen screw on Clip.

Release Gas Line fitting from control valve and re-attach making sure connection is secure (see Step 9).

Retighten Clip.

If you continue to see bubbles after several attempts, contact 1-800-762-1142 for assistance.

Check Gas Line / Cylinder valve for leaks:

Turn cylinder valve ON.

Spoon several drops of solution onto Gas Line and Cylinder valve connection.

Inspect the solution at the connection to look for bubbles.

If NO bubbles appear, then the connection is secure.

If bubbles appear, there is a leak:

Turn Cylinder valve OFF.

Release Gas Line fitting from Cylinder valve and re-attach making sure connection is secure (see Step 13).

If you continue to see bubbles after several attempts, contact 1-800-762-1142 for assistance.

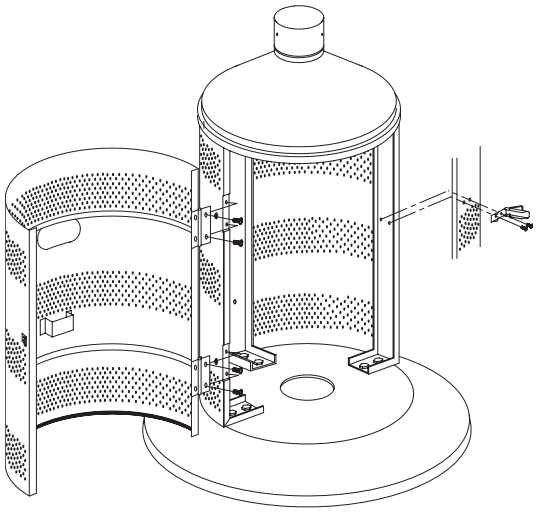
Turn Cylinder Valve OFF.

Step 14 – Install Cylinder Access Panel

Line up holes on Latch with slots on Cylinder Shroud. Attach with (2) Latch Screws and (2) Latch Nuts.

Line up holes in Access Panel hinges with holes in recessed area of left leg. Attach each hinge with (2) Hinge Screws and (2) Hinge Nuts.

Swing Access Panel closed and slip Latch over panel hook and snap shut.



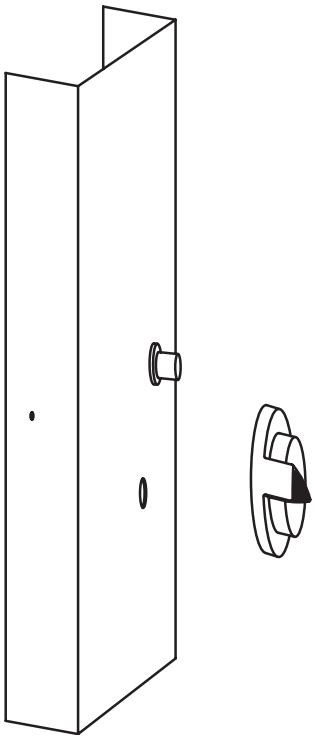
Step 15 – Replace Engine Assembly

Slide Igniter wire onto Igniter post.

Position Engine Access Panel back in place.

Secure Panel in place with 3 screws previously removed from side and bottom holes.

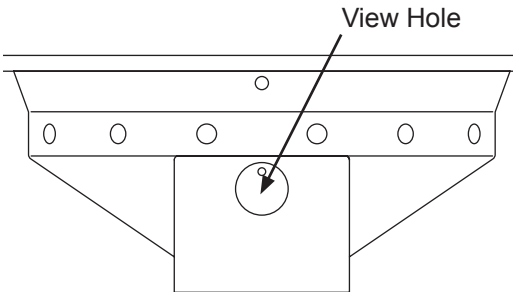
Note: Once you have successfully completed assembly steps 1-15 you are ready to begin operating your heater.

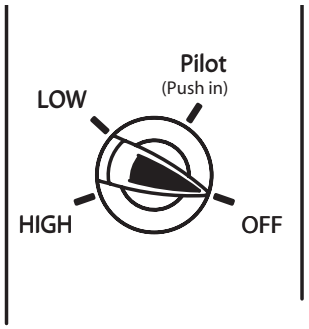


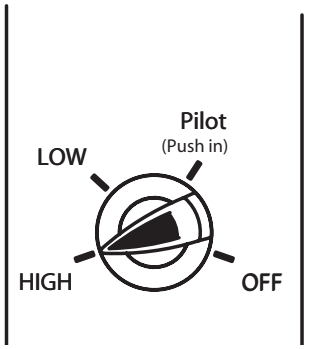
WARNING

FOR YOUR SAFETY

- ***Do NOT attempt to operate heater until you have read and understand all precautions in Section 1 "Safety First." Failure to do so can result in serious personal injury, death, or property damage.***
- ***If at any time you are unable to light burner and smell gas, wait 5 minutes to allow gas to dissipate before attempting to light heater.***
- ***Do NOT touch emitter or dome or move heater for at least 45 minutes after use.***







Operation

Caution: Do NOT attempt to operate heater until you have read and understand all precautions in section 1 "Safety First."

Before Turning Gas Supply ON

- Your heater was designed and approved for OUTDOOR USE ONLY. DO NOT use it inside a building, garage, or any other enclosed area.
- Make sure surrounding areas are free of combustible materials, gasoline, and other flammable vapors or liquids.
- Ensure that there is no obstruction to air ventilation.
- Be sure all gas connections are tight and there are no leaks.
- Be sure the access panel is clear of debris.
- Be sure any component removed during assembly or servicing is replaced and fastened prior to starting.

Before Lighting

- Heater should be thoroughly inspected before each use, and by a qualified service person at least annually.
- If relighting a hot heater, always wait at least 5 minutes.
- Inspect the hose assembly for evidence of excessive abrasion, cuts, or wear. Suspected areas should be leak tested. If the hose leaks, it must be replaced prior to operation. Only use the replacement hose assembly specified by manufacturer.

Lighting

Note: This heater is equipped with a Pilot Light that allows for safer startups and shutdowns. Pilot must be lit before Main Burner can be started.

- Turn Cylinder Valve OFF.
- Push Control Knob IN and turn to OFF.
- Wait 5 minutes for any gas to clear.
- Turn Cylinder Valve ON.
- Open Viewing Hole by sliding cover to either side.
- Push Control Knob IN and rotate to Pilot position.
- Note - For initial start or after any cylinder change, hold Control Knob IN for 2 minutes to purge air from gas lines before proceeding.
- Push Igniter button once. Pilot Light flame will appear and be visible through Viewing Hole.
- Release Control Knob after 30 seconds. Pilot Light will remain lit. If not, return to step 1.
- Turn Control Knob to ON. Main Burner will light immediately. Flame is visible through Viewing Hole. If not, return to step 1.

- If for some reason your ignitor fails to deliver a spark, your heater can be started by inserting a lit match through the pilot view hole while pushing the control knob in while in the PILOT position.

If you experience any ignition problem consult “Troubleshooting” on page 16.

Caution: Avoid inhaling fumes emitted from the heater’s first use. Smoke and odor from the burning of oils used in manufacturing will appear. Both smoke and odor will dissipate after approximately 30 minutes. The heater should NOT produce thick black smoke.

Note: The burner may be noisy when initially turned on. To eliminate excessive noise from the burner, turn the Control Knob to the Pilot position. Then, turn the knob to the level of heat desired.

WARNING

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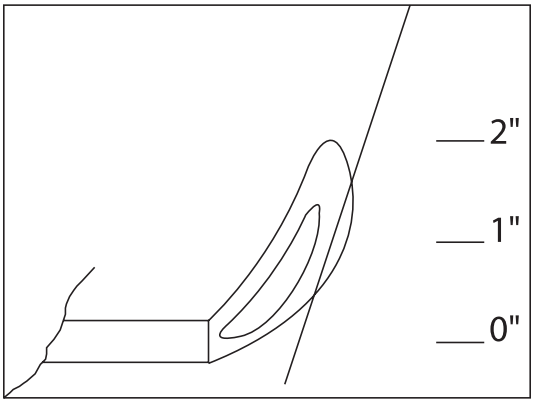
Be careful when attempting to manually ignite this heater. Holding in the control know for more than 10 seconds before igniting the gas will cause a ball of flame upon ignition.

When heater is ON:

Emitter screen will become bright red due to intense heat. The color is more visible at night.

Burner will display tongues of blue and yellow flame. These flames should not be yellow or produce thick black smoke, indicating an obstruction of airflow through the burners. The flame should be blue with straight yellow tops.

If excessive yellow flame is detected, turn off heater and consult “Troubleshooting” on page 16.



Re-lighting

Note: For your safety, Control Knob cannot be turned OFF without first depressing Control Knob in PILOT position and then rotating it to OFF.

Turn Control Knob to OFF.

Wait at least 5 minutes, to let gas dissipate, before attempting to relight Pilot.

Repeat the “Lighting” steps on prior page.

Shut Down

Turn Control Knob clockwise to Pilot. (Normally, burner will make a slight popping sound when extinguished.) Burner will extinguish but Pilot will remain ON.

To extinguish Pilot, depress Control Knob and continue to turn it clockwise to OFF.

Turn Cylinder Valve clockwise to OFF and disconnect Regulator when heater is not in use.

Note: After use, some discoloration of the emitter screen is normal.

WARNING

FOR YOUR SAFETY

Heater will be hot after use. Handle with extreme care.

Operation Checklist

For a safe and pleasurable heating experience, perform this check before each use.

Before Operating

- ❑ I am familiar with entire owner's manual and understand all precautions noted in "Safety First".
- ❑ All components are properly assembled, intact and operable.
- ❑ No alterations have been made.
- ❑ All gas connections are secure and do not leak.
- ❑ Wind velocity is below 10 mph.
- ❑ Outdoor temperature is greater than 40 degrees F.
- ❑ Heater is outdoors (outside any enclosure).
- ❑ There is adequate fresh air ventilation.
- ❑ Heater is away from gasoline or other flammable liquids or vapors.
- ❑ Heater is away from windows, air intake openings, sprinklers and other water sources.
- ❑ Heater is at least 36" from combustible materials.
- ❑ Heater is on a hard and level surface.
- ❑ There are no signs of spider or insect nests.
- ❑ All burner passages are clear.
- ❑ All air circulation passages are clear.
- ❑ Children, pets, clothing, flammable materials and items that can be damaged from radiant heat are away from the heater.
- ❑ Children and adults in the area have been alerted to the high temperature hazards: especially burns and clothing fires.
- ❑ Children and adults in the area have been warned not to touch heater near engine during operation and until unit has cooled.

After Operation

- ❑ Gas control is in OFF position.
- ❑ Gas tank valve is OFF
- ❑ Disconnect Gas line.
- ❑ Heater is upright in a secure location.

Troubleshooting

If the problem is:	And this condition exists:	Then do this
Pilot won't light *Note: Heater operates at reduced efficiency below 40ºF (5ºC).*	Cylinder valve is closed	Open valve
	Blockage in orifice or pilot tube	Clean or replace orifice or pilot tube
	Air in gas line	Open gas line and bleed it (pressing control knob in) for not more than 1 - 2 minutes or until you smell gas
	Low gas pressure with cylinder valve fully open	Turn cylinder valve OFF and replace cylinder
	Igniter fails	Use match to light pilot; obtain new igniter and replace
Pilot won't stay lit	Dirt built up around pilot	Clean dirt from around pilot
	Connection between gas valve and pilot assembly is loose	Tighten connection and perform leak check
	Thermocouple is not operating correctly	Replace thermocouple
Burner won't light	Gas pressure is low	Turn cylinder valve OFF and replace cylinder
	Blockage in orifice	Clear blockage
	Control knob is not in ON position	Turn control knob to ON
Burner flame is low	Gas pressure is low	Turn cylinder valve OFF and replace cylinder
	Outdoor temperature is less than 40ºF and tank is less than 1/4 full	Use a full cylinder
	Supply hose is bent or kinked	Straighten hose
	Control knob fully ON	Check burner and orifices for blockage
Emitter glows uneven *Note: Bottom 1" of emitter normally does NOT glow.*	Gas pressure is low	Turn cylinder valvue OFF and replace cylinder
	Base is not on a level surface	Place heater on a level surface
	Heater is level	Clean burner
Carbon build-up	Dirt or film on reflector and emitter	Clean reflector and emitter
Thick black smoke	Blockage in burner	Remove blockage and clean burner inside and outside

WARNING

FOR YOUR SAFETY

- ***Do NOT touch or move heater for at least 45 minutes after use.***
- ***Dome is hot to the touch.***
- ***Allow dome to cool before touching.***

Maintenance

To enjoy years of outstanding performance from your heater, make sure you perform the following maintenance activities on a regular basis:

Keep exterior surfaces clean.

Use warm soapy water for cleaning. Never use flammable or corrosive cleaning agents.

While cleaning your unit, be sure to keep the area around the burner and pilot assembly dry at all times. Do not submerge the control valve assembly. If the gas control is submerged in water, do NOT use it. It must be replaced.

Air flow must be unobstructed. Keep controls, burner, and circulating air passageways clean. Signs of possible blockage include:

- Gas odor with extreme yellow tipping of flame.
- Heater does NOT reach the desired temperature.
- Heater glow is excessively uneven.
- Heater makes popping noises.

Spiders and insects can nest in burner or orifices. This dangerous condition can damage heater and render it unsafe for use. Clean burner holes by using a heavy-duty pipe cleaner. Compressed air may help clear away smaller particles.

Carbon deposits may create a fire hazard. Clean dome and emitter with warm soapy water if any carbon deposits develop.

Note: In a salt-air environment (such as near an ocean), corrosion occurs more quickly than normal. Frequently check for corroded areas and repair them promptly.

TIP:

Use high-quality automobile wax to help maintain the appearance of your heater. Apply to exterior surfaces from the pole down. Do not apply to emitter screen or domes.

Storage

Between uses:

Turn Control Knob OFF.

Disconnect LP source.

Store heater upright in an area sheltered from direct contact with inclement weather (such as rain, sleet, hail, snow, dust and debris).

If desired, cover heater to protect exterior surfaces and to help prevent build up in air passages.

Note: Wait until heater is cool before covering.

During periods of extended inactivity or when transporting:

Turn Control Knob OFF.

Disconnect LP source and move to a secure, well-ventilated location outdoors.

Store heater upright in an area sheltered from direct contact with inclement weather (such as rain, sleet, hail, snow, dust and debris).

If desired, cover heater to protect exterior surfaces and to help prevent build up in air passages.

Never leave LP cannister exposed to direct sunlight or excessive heat.

Note: Wait until heater is cool before covering.

Service

To learn how to service and procure parts for worn out, defective or damaged components contact 1-800-762-1142 for assistance or e-mail CustomerService@BlueRhino.com. Please supply model number and serial ID number for best service support. These numbers can be found on a label on the rear of the Valve Housing.

Caution: Use only original equipment replacement parts. Use of unauthorized parts or modification of parts will void warranty and create an unsafe condition.

Caution: Always allow heater to cool before attempting service.

Limited Warranty

Blue Rhino Global Sourcing, LLC ("Vendor") warrants to the original retail purchaser of this heater, and to no other person, that if this heater is assembled and operated in accordance with the printed instructions accompanying it, then for a period of two (2) years from the date of purchase, all parts in such heater shall be free from defects in material and workmanship. Vendor may require reasonable proof of your date of purchase from an authorized retailer or distributor. Therefore, you should retain your sales slip or invoice. This Limited Warranty shall be limited to the repair or replacement of parts, which prove defective under normal use and service and which Vendor shall determine in its reasonable discretion upon examination to be defective. Before returning any parts, you should contact Vendor's Customer Service Department using the contact information listed below. If Vendor confirms, after examination, a defect covered by this Limited Warranty in any returned part, and if Vendor approves the claim, Vendor will replace such defective part without charge. If you return defective parts, transportation charges must be prepaid by you. Vendor will return replacement parts to the original retail purchaser, freight or postage prepaid.

This Limited Warranty does not cover any failures or operating difficulties due to accident, abuse, misuse, alteration, misapplication, improper installation or improper maintenance or service by you or any third party, failure to perform normal and routine maintenance on the heater, shipping damage, normal adjustment to burner, damage or repairs related to insects, birds, or animals of any kind, and damage due to weather conditions as set out in this owner's manual. In addition, the Limited Warranty does not cover damage to the finish, such as scratches, dents, discoloration, rust or other weather damage, after purchase.

This Limited Warranty is in lieu of all other express warranties. Vendor disclaims all warranties for products that are purchased from sellers other than authorized retailers or distributors. AFTER THE PERIOD OF THE TWO (2)-YEARS EXPRESS WARRANTY, VENDOR DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. FURTHER, VENDOR SHALL HAVE NO LIABILITY WHATSOEVER TO PURCHASER OR ANY THIRD PARTY FOR ANY SPECIAL, INDIRECT, PUNITIVE, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. Vendor assumes no responsibility for any defects caused by third parties. This Limited Warranty gives the purchaser specific legal rights; a purchaser may have other rights depending upon where he or she lives. Some jurisdictions do not allow the exclusion or limitation of special, incidental or consequential damages, or limitations on how long a warranty lasts, so the above exclusion and limitations may not apply to you.

Vendor does not authorize any person or company to assume for it any other obligation or liability in connection with the sale, installation, use, removal, return, or replacement of its equipment, and no such representations are binding on Vendor.

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Specifications

Certifications:
CSA International Requirement 5.90
Canadian National Standard CAN1-2.23-M82

Rating:
Maximum 40,000 BTU/hr. input

Heat Range:
Up to 20 foot diameter

Fuel:
Liquid Propane Gas (LP)

Cylinder Size:
Nominal 20 lb / 5 Gallon

Inlet gas supply pressure:
Maximum – 150 PSI
Minimum – 5 PSI

Manifold Pressure:
11.00 in. W.C.

Engine:
IPP E8

Safety Features:
100% Burner shut-off
Tilt Switch

Manufacturer:
Blue Rhino Global Sourcing, LLC

Made In:
China